

Material Safety Data Sheet (MSDS) for LY294002 (PI3 Kinase Inhibitor)



Cell Signaling
TECHNOLOGY™

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I. Identification

Product name: LY294002 (PI3 Kinase Inhibitor)

Chemical name: 2-(4-morpholino)-8-phenyl-4H-1-benzopyran-4-one

CAS number: 154447-36-6

Empirical formula: C₁₉H₁₇NO₃

Molecular weight: 307.35

Chemical family: Benzopyranone

II. Physical Data

Boiling point: N/A (solid compound)

Specific gravity: N/A (solid compound)

Vapor density: N/A (solid compound)

Percent volatile by volume: N/A (solid compound)

Freezing point: Solid at working temperatures.

Vapor pressure at 20°C: N/A (solid compound)

Solubility in water: <10 mg/ml

Appearance: Off-white to cream-colored solid.

III. Ingredients

Material: Supplied as pure compound.

IV. Fire and Explosion Hazard Data

Flash point: N/A (solid compound)

Extinguishing media: Fire extinguishing media should match other materials in fire.

Special fire fighting procedures: If involved in fire, don NIOSH/MSHA-approved self-contained breathing apparatus, flame/chemical resistant.

Unusual fire and explosion hazards: Emits toxic fumes under fire conditions.

V. Health Hazard Data

Threshold Limit Value (TLV) and source: Data not available.

Acute effects of overexposure: May cause skin irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Swallowing: May be harmful if swallowed.

Skin absorption: May be harmful if absorbed through the skin.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Skin contact: May be harmful.

Eye contact: May cause eye irritation.

Chronic effects of overexposure: May be harmful.

Emergency and First Aid Procedures

Swallowing—Wash out mouth with water, provided person is conscious. Call a physician.

Skin—In case of contact, immediately wash skin with soap and copious amounts of water.

Inhalation—If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Eyes—In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician.

VI. Reactivity Data

Stability/Conditions to avoid: Not reactive as far as is known.

Incompatibility/Materials to avoid: Strong oxidizing agents.

Combustion/Decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous polymerization: Not susceptible to polymerization.

VII. Spill or Leak Procedures

Steps to be taken if material is spilled or released: Wear self-contained breathing apparatus, rubber boots and rubber gloves. Sweep up, place in bag and dispose of properly. Wash spill site after sweeping up.

Waste disposal method: Dissolve the material in a combustible solvent and burn in an EPA-licensed chemical incinerator equipped with an after-burner and scrubber.

VIII. Special Protection Information

Respiratory protection: Avoid inhalation. Use NIOSH/MSHA-approved respirator.

Ventilation: Use mechanical exhaust.

Protective equipment: Wear suitable protective clothing, chemical resistant gloves and lab safety glasses.

IX. Special Precautions

Precautions to be taken in handling and storage: This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory.

This compound is sold only in milligram quantities for use in dilute solutions in biological research. No other use is intended, and any other use may involve substantial hazards.

This compound is to be stored as tightly stoppered solutions kept under nitrogen or argon, or kept as supplied in a sealed glass ampule.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

Revised: August 2001